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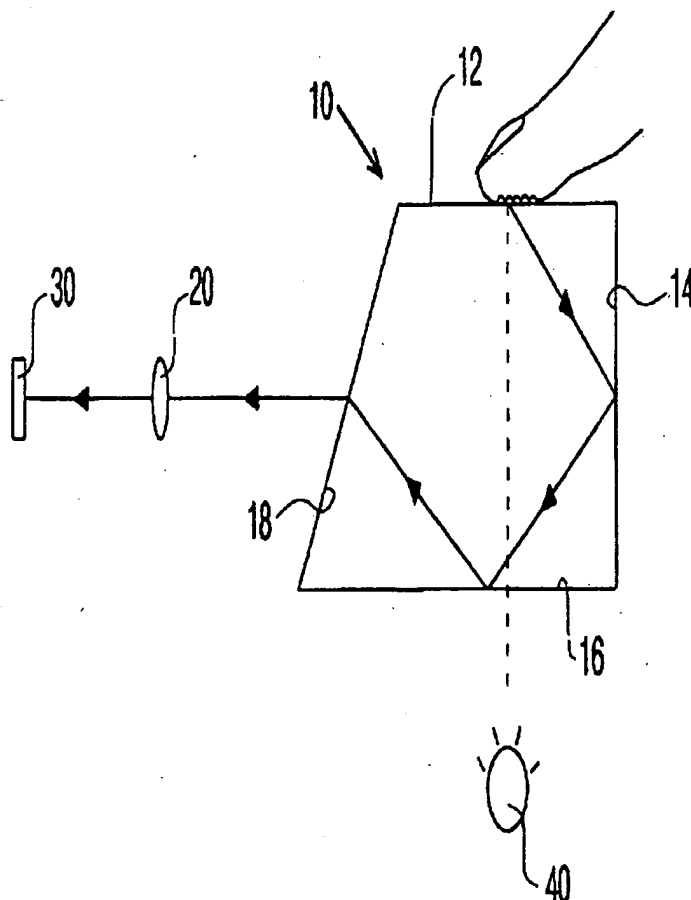
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LINE SCANNING APPARATUS FOR INPUTTING FINGER PRINT

Representative drawing



(57) Abstract:

PURPOSE: A line scanning apparatus for inputting a finger print is provided to simplify an optical system without many optical sources and diffusing panels, and to reduce the cost of a product, by making a clear image of only one line of a finger print image rather than total finger print images, and adopting a CCD(Charge Coupled Device) with one line or two lines.

CONSTITUTION: An optical source(40) is applied to the finger print. A prism(10) changes the path of the light that is reflected by the finger print to guide the light to a sensor(30) for detecting the finger print image. A lens(20) collects the light which is emitted from the prism(10). The sensor(30) with a line type

detects the finger print image which passes through the lens(20), and thereby outputs an electrical image signal. The prism(10) includes a finger print input surface (12) which contacts to the finger print, the first reflection surface(14) for reflecting the light which is scattered from the finger print that contacts to the surface(12) by the optical source(40), the second reflection surface(16) for reflecting the light that is reflected by the surface(14), and an emission surface(18) for outputting the light that is reflected by the surface(16).

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